



Aeromonas salmonicida

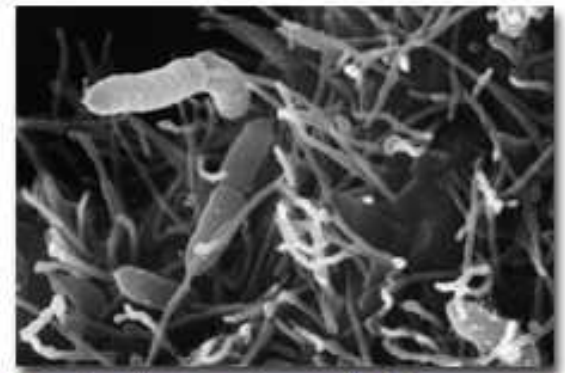
Furunculosis, ulcer disease, erythrodermatitis

General

1. Gram-negative, non-spore-forming, generally non-motile bacterium growing as single or paired rods of varying lengths and occasionally as coccoid cells
2. Impact of the disease caused by the bacteria increases with increasing environmental degradation and pollution

Geography and Habitat

1. Native: Unknown, first discovered in Germany
2. Habitats
 - Occurs in a broad range of temperatures in marine and freshwater environments
 - Typically occurs in aquaculture and hatchery environments, though capable of being established in wild populations of native and introduced fish populations
 - Most commonly infect salmonids, though known to infect other species
 - Strains typically grow from 20°C—37°C
 - Optimum pH is 6.4—8.0; tolerance ranges from 5.3—9.0



Scanning electron micrograph of *Aeromonas* sp. bacteria adhering to human epithelial cells

Photo: NOAA Northwest Fisheries Science Center
<http://nas.er.usgs.gov/queries/FactSheet.aspx?SpeciesID=2353>

Invasion Pathways

1. Stocked, non-indigenous fishes, such as brown trout

Sources

1. <http://nas.er.usgs.gov/queries/FactSheet.aspx?SpeciesID=2353>